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PHOTOGRAPHIC INTELLIGENCE MEMORANDUM

NORTH KOREAN ELECTRIC POWER DAMAGE ASSESSMENT REPORT

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NORTH KOREAN ELECTRIC POWER DAMAGE ASSESSMENT REPORT

This study presents an estimate of bomb damage suffered by electric power facilities in North Korea based upon analyses of aerial photography. Important installations not covered in this report will be subject to supplementary reports that will be issued as additional photography becomes available.

This report does not necessarily indicate the condition of the installation at the cessation of hostilities, as some of the photography was taken as early as [REDACTED]. The dates of aerial coverage are presented with the damage estimate for each electric power installation.

25X1D

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HYDROELECTRIC POWER PLANTS

25X1D

CHOSIN #1 (H-1)*

- (a) Four of 4 penstocks broken
- (b) Approximately one-third of generator house collapsed
- (c) Sub-station destroyed

UTM
Coordinates

CV551528

CHOSIN #2 (H-2)

- (a) Roof off surge tanks; tank empty
- (b) Four of 4 penstocks broken
- (c) Generator hall pierced in several places
- (d) Sub-station destroyed
- (e) Auxiliary intake destroyed

CV573474

CHOSIN #3 (H-3)

- (a) Roof off surge tank
- (b) Three of 3 penstocks broken
- (c) Generator hall pierced by bombs in several places
- (d) Sub-station destroyed
- (e) Auxiliary intake pierced by bombs in one place

CV584431

CHOSIN #4 (H-4)

- (a) Roof off surge tank and tank empty
- (b) One of 3 penstocks broken
- (c) Overflow pipe broken
- (d) Sub-station destroyed

CV646334

FUNEI #1 (H-5)

No apparent damage (poor coverage)

EB510564

FUNEI #2 (H-6)

- (a) Penstock intact
- (b) Generator house appears intact
- (c) Sub-station destroyed
- (d) Ten of 15 nearby buildings destroyed

EB558562

*H-1, etc. indicates the location of installation on attached map

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25X1D

FUSEN #1 (H-7)

- (a) Two of 4 penstocks broken
- (b) Roof off generator house
- (c) Sub-station destroyed

FUSEN #2 (H-8)

- (a) Penstocks intact
- (b) Ends and roof off generator house
- (c) Sub-station damaged

FUSEN #3 (H-9)

- (a) Penstocks probably broken
- (b) Three-quarters of generator house destroyed
- (c) Sub-station destroyed

FUSEN #4 (H-10)

- (a) Roof off surge tank
- (b) Penstocks underground
- (c) Roof and one end off generator house due to one direct hit on end of building
- (d) Sub-station destroyed

KONGSAN #3 (H-11)

- (a) Generator building partially gutted
- (b) Transformer yard destroyed
- (c) Penstock ruptured

KONGSAN #4 (H-12)

- (a) Generator building completely gutted
- (b) Penstock ruptured
- (c) Half of surge tank roof missing
- (d) Transformer yard damaged

UTM
Coordinates

CV779671

CV805621

CV802561

CV766504

DT015982

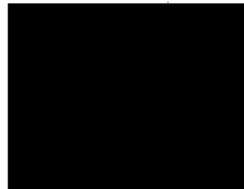
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25X1D

KYOSEN #1 (H-13)



UTM
Coordinates

DA534140

- (a) Six to 8 of 8 penstocks broken
- (b) Generator house pierced in 3 places
- (c) Sub-station east of generator house destroyed; sub-station on northwest corner of generator house partially destroyed in spite of heavy revetments. Four transformers appear intact
- (d) Dam adjacent to generator hall intact
- (e) Auxiliary intake broken in one place
- (f) Exhaust tunnel pierced in one place

KYOSEN #2 (H-14)



DA670028

25X1D

- (a) Surge tank roof off
- (b) Three of 4 penstocks severed
- (c) Generator hall three-quarters demolished
- (d) Transformer yard heavily damaged

KYOSEN #3 (H-15)



DV776953

25X1D

- (a) Roof off surge tank and tank breached
- (b) Water flowing freely from side of hill below surge tank due to ruptured underground pipe
- (c) Afterbay covered by alluvial material which was deposited when surge tank was breached
- (d) Three or 4 of 4 penstocks broken
- (e) Overflow pipe broken
- (f) Generator house roof half off; remainder of roof pierced in several places
- (g) Sub-station destroyed
- (h) Exhaust tunnel pierced in several places

KYOSEN #4 (H-16)



DV867826

25X1D

- (a) Roof off surge tank
- (b) Two or 3 of 4 penstocks broken
- (c) Roof off most of generator house
- (d) Generators probably covered with earth
- (e) Sub-station destroyed
- (f) Several transformers revetted near generator house

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25X1D

UTM
Coordinates

SERYUCHON POWER PLANT AND DAM (H-17)

CU378814

- (a) Only the power plant was bombed
- (b) No apparent damage to generator house
- (c) 

SUIHO (H-18)

XE664800

- (a) Generator hall has large hole in roof at south end, plus 3 smaller holes
- (b) Transformer yard nearly completely destroyed
- (c) Adjacent buildings destroyed
- (d) Adjacent hillside railroad line severed

25X1B

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THERMAL ELECTRIC POWER PLANTS

25X1D

HOERYONG (T-1)*

- (a) Generator and boiler house destroyed
- (b) Transformer yard intact

KILCHU (T-2)

- (a) Generator and boiler house roof destroyed, walls caved in, interior totally gutted
- (b) Transformer yard heavily damaged

KYOMIPO (T-3)

- (a) Generator and boiler house roof heavily damaged and pierced
- (b) Transformer yard heavily damaged

SINUIJU (T-4)

- (a) Generator building gutted
- (b) Transformer station building gutted
- (c) Cooling ponds intact
- (d) Heat pipes to adjacent plant destroyed

UTM
Coordinates

EB6298

EA2734

YC290910

XE1839

*T-1, etc. indicates the location of installation on attached map

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SUB-STATIONS

CHANGHUNG-NI (S-1)*

Transformer yard destroyed; control house intact; 3 of 4 revetted transformers on hillside

CHIDOK (S-2)

No damage

CHONGJIN #1 (S-3)

Transformer yard and control house destroyed; 3 revetted transformers nearby

CHONGJIN #2 (S-4)
(IRON INDUSTRY SUB-STATION)

Transformer yard and control house damaged; 6 revetted transformers nearby

CHONGJIN #3 (S-5)

Transformer yard damaged; control house intact; 3 transformers revetted nearby

CHONGJIN #4 (S-6)

Transformer yard damaged; control house intact; station possibly still in operation

CHUURONJANG (S-7)

No damage to station; 5 transformers revetted nearby

HAGARU-RI (S-8)

Transformer yard damaged; control house intact; 3 or 4 transformers revetted on hillside

*S-1, etc. indicates the location of installation on attached map

25X1D

UTM
Coordinates

DV656485

EA169073

EB661280

EB666252

EB658277

EB640248

EB504036

CV519715

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25X1D

UTM
Coordinates

HAMHUNG #1 (S-9)

CV739196

Transformer yard and control house destroyed; transformer and controls installed [redacted] revetments

HAMHUNG #2 (S-10)

CV761166

Transformer yard and control house destroyed; 6 transformers in covered revetments along dike

HONGWON (S-11)

DV101316

Transformer yard and control house destroyed; transformer and control equipment in nearby revetments

HUNGNAM #1 (S-12)

CV780115

Transformer yard destroyed; control house damaged; several transformers revetted nearby; control house undergoing repairs

HUNGNAM #2 (S-13)

CV795111

Transformer yard and control house destroyed; [redacted]

HUNGNAM #3 (S-14)

CV824105

Transformer yard and control house damaged

HUNGNAM #4 (S-15)

CV832102

Transformer yard and control house badly damaged and abandoned

HUNGNAM #5 (S-16)

CV792082

Transformer yard and control house badly damaged and abandoned

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25X1B

25X1B
25X1B

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		<u>UTM Coordinates</u>	
	HUNGNAM #6 (S-17)	CV800080	25X1D
	Transformer yard and control house destroyed		
	HUNGNAM #7 (S-18)	CV820112	25X1D
	Transformer yard and control house located		
25X1B	[REDACTED]		
25X1B	[REDACTED] had not been bombed		
	HUNGNAM #8 (S-19)	CV798113	
	Transformers and controls [REDACTED]		25X1B
25X1B	[REDACTED]		
	KIGOK (S-20)	CV771339	
	Transformer yard and control house damaged; equipment moved to 6 or more nearby revetments		
	NAJIN (S-21)	FB063772	
	Station intact		
	OCHONJANG #1 (S-22)	DA846294	
	Slight damage; equipment moved into 7 nearby revetments		
	OCHONJANG #2 (S-23) (MINE)	DA805289	
	No damage		
	PYONGYANG (S-24)	YD3922	
	Sub-station totally destroyed		
	SAGU (S-25)	BU779049	
	Transformer yard abandoned; control house intact; 6 transformers revetted		

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25X1D

UTM
Coordinates

TANCHON (S-26)

Transformer yard abandoned; 2 of 3 control buildings damaged; 5 transformers revetted and camouflaged; control equipment found in 3 buildings on hillside

DV896786

UMPO (S-27)

No damage; transformers and control equipment revetted

DV225334

WONSAN #1 (S-28)

Transformer yard and control yard destroyed; 

CV624345

WONSAN #2 (S-29)

Transformer yard and control house destroyed

CV689315

YANGJI-DONG (S-30)

Transformer yard and control house damaged

CV586400

YATAE-RI (S-31)

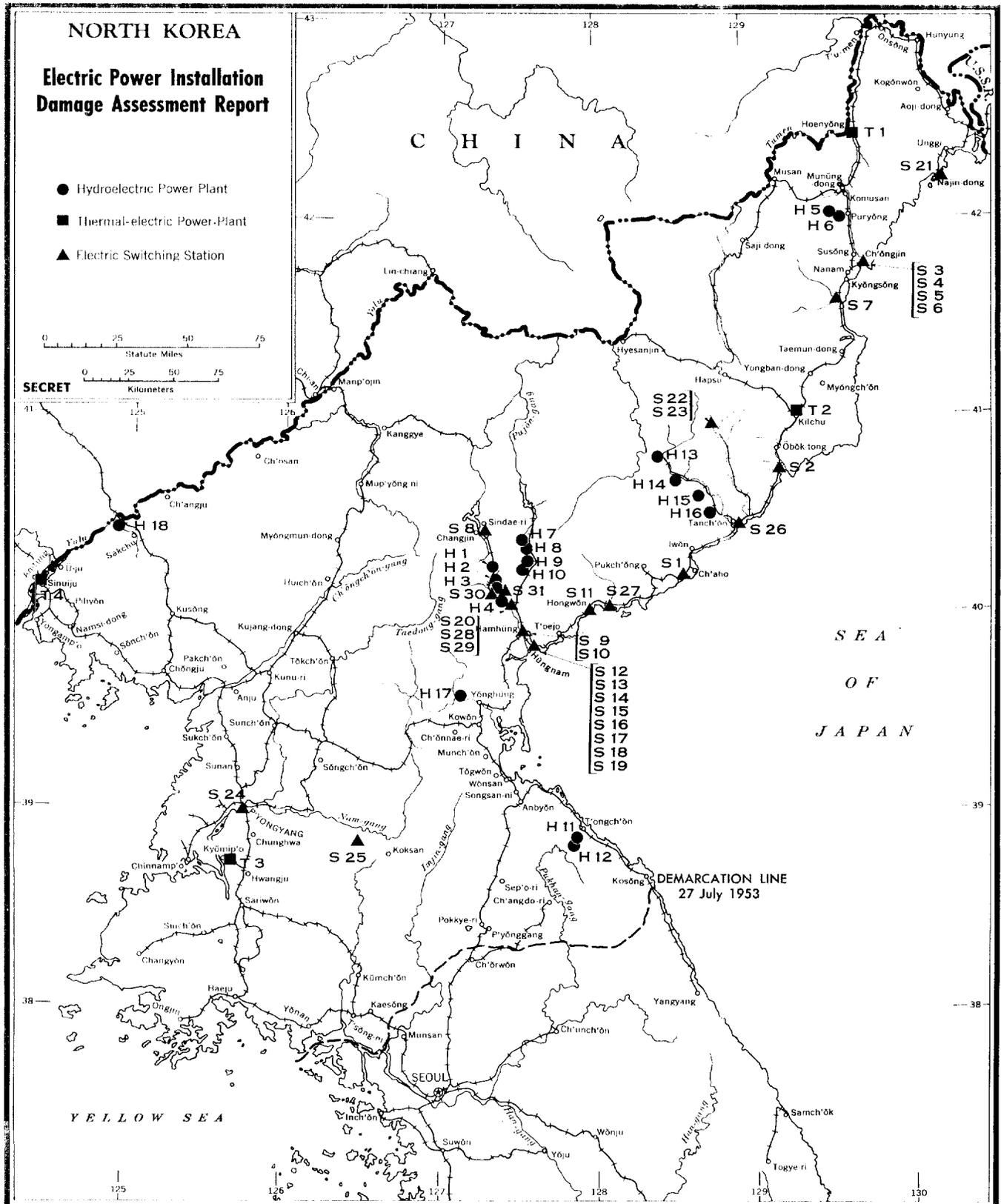
Transformer yard and control house damaged; 2 transformers and control equipment in 2 concrete revetments

CV585475

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